

- d. While holding the pin in place with a screwdriver, compress the holder with the pliers, then rotate the pin 90° (Figure 13) to lock the pin in place.
 - e. Remove the pliers and screwdriver and repeat for the other retainer and pin assembly.
 - f. Make sure both retainers and pins are properly locked in place. See Figure 19.
16. Repeat the preceding steps to replace the brake shoes on the opposite side of the vehicle.

17. Install the front brake drums as described in this chapter.

18. Adjust the brake shoes as described in Chapter Three.

FRONT BRAKE PANEL

Refer to Figure 1.

Warp Inspection (Two-Wheel Drive)

Before removing the brake panel, check it for warp as follows. A dial indicator and magnetic stand will be required.

1. Remove the brake drum and brake shoes as described in this chapter.
2. Clean off any grease from the brake panel where the brake drum seal rides.
3. Install a suitable size flat metal plate (A, Figure 20) and collar (B) onto the steering knuckle. Secure both parts with the hub nut (C, Figure 20). Tighten the nut securely.
4. Use the depth gauge portion of a vernier caliper and measure the distance from the attached plate to the brake panel surface at several points. If there is a variation of 0.4 mm (0.02 in.) or more, the brake panel is warped and must be replaced.
5. Remove the temporary plate and collar.

Warp Inspection (Four-Wheel Drive)

Before removing the brake panel, check it for warp as follows. A dial indicator and magnetic stand will be required.

1. Remove the brake drum and brake shoes as described in this chapter.
2. Clean off any grease from the brake panel where the brake drum seal rides.
3. Install a metal plate (A, Figure 21) onto the wheel hub and secure it with a wheel nut. This plate provides a mounting location for the magnetic stand.
4. Attach a dial indicator and magnetic stand (B, Figure 21) to the metal plate and place the pointer in the area where the brake drum seal rides (Figure 21).
5. Slowly rotate the wheel hub and check for warp. A variation of 0.4 mm (0.02 in.) or more indicates the brake panel is warped and must be replaced.
6. Remove the dial indicator and metal plate.

Removal/Installation

NOTE

The following illustrations depict a four-wheel drive model. Two-wheel drive models are similar.

1. Drain the brake fluid as described in *Brake Fluid Draining* in this chapter.
2. Remove the brake shoes as described in this section.
3. Remove the brake hose banjo bolt and sealing washers (A, **Figure 22**) at the back of the brake panel. Place the loose end of the brake hose in a thick plastic bag or container to prevent the entry of dirt and foreign matter, and to prevent brake fluid from leaking out onto the suspension and brake components. Tie the brake hose up out of the way.

CAUTION

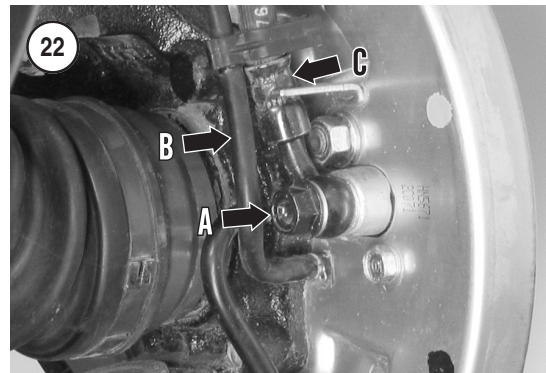
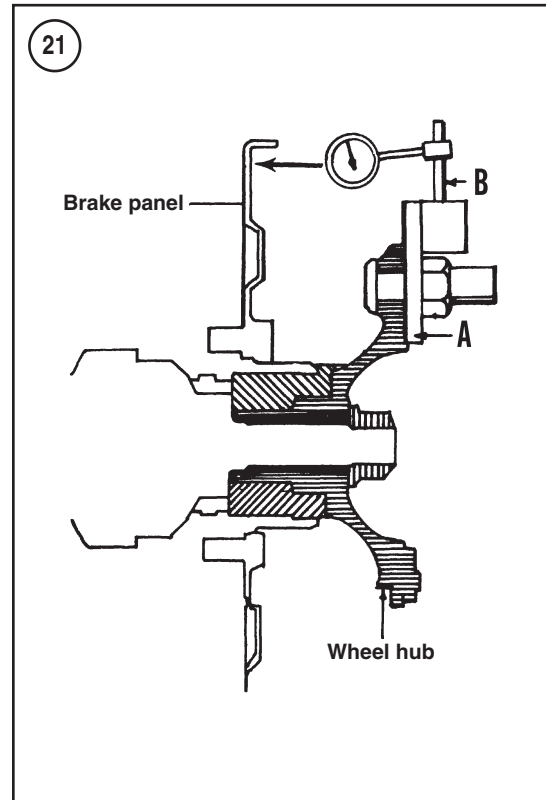
Wash brake fluid off any painted or plated surfaces immediately as it will destroy the finish. Use soapy water and rinse completely.

4. Disconnect the vent hose (B, **Figure 22**) from the brake panel.
5. Remove the bolts (**Figure 23**) that hold the brake panel to the steering knuckle and remove the brake panel. Discard these bolts.
6. Remove the O-ring (**Figure 24**) from the steering knuckle.
7. To service the wheel cylinders, refer to *Wheel Cylinders* in this chapter.
8. Perform the inspection procedure in this section.
9. Install the brake panel by reversing these removal steps, plus the following:
 - a. Install a new O-ring onto the steering knuckle (**Figure 24**).

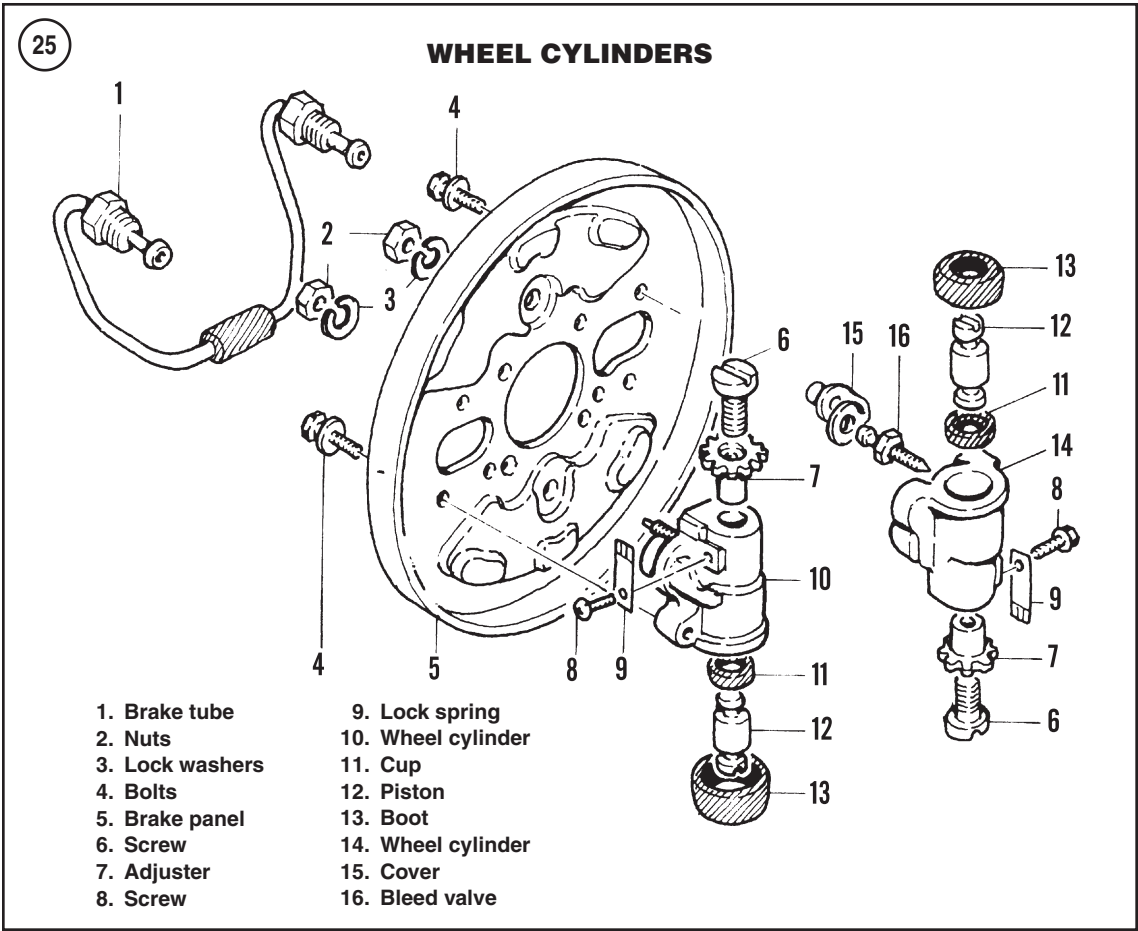
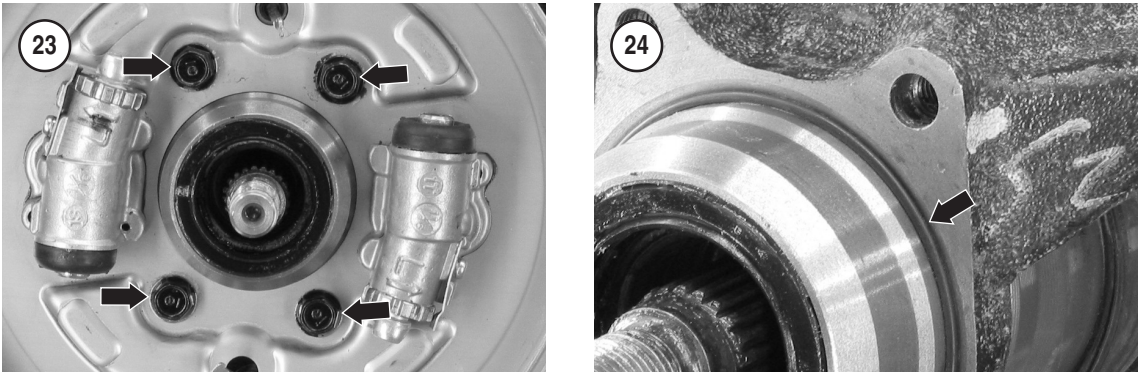
CAUTION

Always install new brake panel mounting bolts. The bolts are treated with a special dry-coated material that is necessary for waterproofing.

- b. Install the brake panel and new mounting bolts. Tighten the brake panel mounting bolts (**Figure 23**) to 29 N•m (22 ft.-lb.).
- c. Position the brake hose end between the stoppers on the backside of the brake panel. See C, **Figure 22**, typical.



- d. Install a new sealing washer on each side of the brake hose. Tighten the banjo bolt to 34 N•m (25 ft.-lb.).
10. Repeat the previous steps to service the other brake panel assembly.
11. Turn the handlebar from side to side while observing the movement of the brake and vent hoses. Make sure these parts are not kinked or pulled incorrectly.
12. Bleed the front brakes as described in this chapter.



Inspection

1. Remove all sealer residue from the brake panel and steering knuckle mounting surfaces.
2. Wipe off all old grease from all of the brake panel parts.
3. Inspect the brake panel for damage.

4. Inspect the metal wheel cylinder brake tube. If necessary, replace it as described in *Wheel Cylinders* in this chapter.

WHEEL CYLINDERS

Refer to **Figure 25**.

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